

TECHNIKER 1600/2900

0 2002

1652
RECEIVED
1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/762,097A

DATE: 08/13/2002
TIME: 13:31:17

Input Set : A:\Seq LIST.txt
Output Set: N:\CRF3\08132002\I762097A.raw

3 <110> APPLICANT: HERSHFIELD, MICHAEL S.
4 KELLY, SUSAN J.
6 <120> TITLE OF INVENTION: URATE OXIDASE
8 <130> FILE REFERENCE: 1579-379
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/762,097A
C--> 11 <141> CURRENT FILING DATE: 2001-08-23
13 <160> NUMBER OF SEQ ID NOS: 13
15 <170> SOFTWARE: PatentIn Ver. 2.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 915
19 <212> TYPE: DNA
20 <213> ORGANISM: Artificial Sequence
22 <220> FEATURE:
23 <221> NAME/KEY: CDS
24 <222> LOCATION: (1)..(915)
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Description of Artificial Sequence:PBC CHIMERA
29 <400> SEQUENCE: 1
30 atg gct cat tac cgt aat gac tac aaa aag aat gat gag gta gag ttt 48
31 Met Ala His Tyr Arg Asn Asp Tyr Lys Lys Asn Asp Glu Val Glu Phe
32 1 5 10 15
34 gtc cga act ggc tat ggg aag gat atg ata aaa gtt ctc cat att cag 96
35 Val Arg Thr Gly Tyr Gly Lys Asp Met Ile Lys Val Leu His Ile Gln
36 20 25 30
38 cga gat gga aaa tat cac agc att aaa gag gtg gca act tca gtg caa 144
39 Arg Asp Gly Lys Tyr His Ser Ile Lys Glu Val Ala Thr Ser Val Gln
40 35 40 45
42 ctg act ttg agc tcc aaa aaa gat tac ctg cat gga gac aat tca gat 192
43 Leu Thr Leu Ser Ser Lys Lys Asp Tyr Leu His Gly Asp Asn Ser Asp
44 50 55 60
46 gtc atc cct aca gac acc atc aag aac aca gtt aat gtc ctg gcg aag 240
47 Val Ile Pro Thr Asp Thr Ile Lys Asn Thr Val Asn Val Leu Ala Lys
48 65 70 75 80
50 ttc aaa ggc atc aaa agc ata gaa act ttt gct gtg act atc tgt gag 288
51 Phe Lys Gly Ile Lys Ser Ile Glu Thr Phe Ala Val Thr Ile Cys Glu
52 85 90 95
54 cat ttc ctt tct tcc aag cat gtc atc aga gct caa gtc tat gtg 336
55 His Phe Leu Ser Ser Phe Lys His Val Ile Arg Ala Gln Val Tyr Val
56 100 105 110
58 gaa gaa gtt cct tgg aag cgt ttt gaa aag aat gga gtt aag cat gtc 384
59 Glu Glu Val Pro Trp Lys Arg Phe Glu Lys Asn Gly Val Lys His Val
60 115 120 125
62 cat gca ttt att tat act cct act gga acg cac ttc tgt gag gtt gaa 432

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/762,097A

DATE: 08/13/2002
TIME: 13:31:17

Input Set : A:\Seq LIST.txt
Output Set: N:\CRF3\08132002\I762097A.raw

63	His Ala Phe Ile Tyr Thr Pro Thr Gly Thr His Phe Cys Glu Val Glu			
64	130	135	140	
66	cag ata agg aat gga cct cca gtc att cat tct gga atc aaa gac cta	480		
67	Gln Ile Arg Asn Gly Pro Pro Val Ile His Ser Gly Ile Lys Asp Leu			
68	145	150	155	160
70	aaa gtc ttg aaa aca acc cag tct ggc ttt gaa gga ttc atc aag gac	528		
71	Lys Val Leu Lys Thr Thr Gln Ser Gly Phe Glu Gly Phe Ile Lys Asp			
72	165	170	175	
74	cag ttc acc acc ctc cct gag gtg aag gac cgg tgc ttt gcc acc caa	576		
75	Gln Phe Thr Thr Leu Pro Glu Val Lys Asp Arg Cys Phe Ala Thr Gln			
76	180	185	190	
78	gtg tac tgc aaa tgg cgc tac cac cag ggc aga gat gtg gac ttt gag	624		
79	Val Tyr Cys Lys Trp Arg Tyr His Gln Gly Arg Asp Val Asp Phe Glu			
80	195	200	205	
82	gcc acc tgg gac act gtt agg agc att gtc ctg cag aaa ttt gct ggg	672		
83	Ala Thr Trp Asp Thr Val Arg Ser Ile Val Leu Gln Lys Phe Ala Gly			
84	210	215	220	
86	ccc tat gac aaa ggc gag tac tca ccc tct gtg cag aag acc ctc tat	720		
87	Pro Tyr Asp Lys Gly Glu Tyr Ser Pro Ser Val Gln Lys Thr Leu Tyr			
88	225	230	235	240
90	gat atc cag gtg ctc tcc ctg agc cga gtt cct gag ata gaa gat atg	768		
91	Asp Ile Gln Val Leu Ser Leu Ser Arg Val Pro Glu Ile Glu Asp Met			
92	245	250	255	
94	gaa atc agc ctg cca aac att cac tac ttc aat ata gac atg tcc aaa	816		
95	Glu Ile Ser Leu Pro Asn Ile His Tyr Phe Asn Ile Asp Met Ser Lys			
96	260	265	270	
98	atg ggt ctg atc aac aag gaa gag gtc ttg ctg cca tta gac aat cca	864		
99	Met Gly Leu Ile Asn Lys Glu Glu Val Leu Leu Pro Leu Asp Asn Pro			
100	275	280	285	
102	tat gga aaa att act ggt aca gtc aag agg aag ttg tct tca aga ctg	912		
103	Tyr Gly Lys Ile Thr Gly Thr Val Lys Arg Lys Leu Ser Ser Arg Leu			
104	290	295	300	
106	tga			915
110	<210> SEQ ID NO: 2			
111	<211> LENGTH: 304			
112	<212> TYPE: PRT			
113	<213> ORGANISM: Artificial Sequence			
115	<220> FEATURE:			
116	<223> OTHER INFORMATION: Description of Artificial Sequence:PBC CHIMERA			
118	<400> SEQUENCE: 2			
119	Met Ala His Tyr Arg Asn Asp Tyr Lys Lys Asn Asp Glu Val Glu Phe			
120	1	5	10	15
122	Val Arg Thr Gly Tyr Gly Lys Asp Met Ile Lys Val Leu His Ile Gln			
123	20	25	30	
125	Arg Asp Gly Lys Tyr His Ser Ile Lys Glu Val Ala Thr Ser Val Gln			
126	35	40	45	
128	Leu Thr Leu Ser Ser Lys Lys Asp Tyr Leu His Gly Asp Asn Ser Asp			
129	50	55	60	
131	Val Ile Pro Thr Asp Thr Ile Lys Asn Thr Val Asn Val Leu Ala Lys			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/762,097A

DATE: 08/13/2002
TIME: 13:31:17

Input Set : A:\Seq LIST.txt
Output Set: N:\CRF3\08132002\I762097A.raw

132	65	70	75	80
134	Phe Lys Gly Ile Lys Ser Ile Glu Thr Phe Ala Val Thr Ile Cys Glu			
135	85	90	95	
137	His Phe Leu Ser Ser Phe Lys His Val Ile Arg Ala Gln Val Tyr Val			
138	100	105	110	
140	Glu Glu Val Pro Trp Lys Arg Phe Glu Lys Asn Gly Val Lys His Val			
141	115	120	125	
143	His Ala Phe Ile Tyr Thr Pro Thr Gly Thr His Phe Cys Glu Val Glu			
144	130	135	140	
146	Gln Ile Arg Asn Gly Pro Pro Val Ile His Ser Gly Ile Lys Asp Leu			
147	145	150	155	160
149	Lys Val Leu Lys Thr Thr Gln Ser Gly Phe Glu Gly Phe Ile Lys Asp			
150	165	170	175	
152	Gln Phe Thr Thr Leu Pro Glu Val Lys Asp Arg Cys Phe Ala Thr Gln			
153	180	185	190	
155	Val Tyr Cys Lys Trp Arg Tyr His Gln Gly Arg Asp Val Asp Phe Glu			
156	195	200	205	
158	Ala Thr Trp Asp Thr Val Arg Ser Ile Val Leu Gln Lys Phe Ala Gly			
159	210	215	220	
161	Pro Tyr Asp Lys Gly Glu Tyr Ser Pro Ser Val Gln Lys Thr Leu Tyr			
162	225	230	235	240
164	Asp Ile Gln Val Leu Ser Leu Ser Arg Val Pro Glu Ile Glu Asp Met			
165	245	250	255	
167	Glu Ile Ser Leu Pro Asn Ile His Tyr Phe Asn Ile Asp Met Ser Lys			
168	260	265	270	
170	Met Gly Leu Ile Asn Lys Glu Glu Val Leu Leu Pro Leu Asp Asn Pro			
171	275	280	285	
173	Tyr Gly Lys Ile Thr Gly Thr Val Lys Arg Lys Leu Ser Ser Arg Leu			
174	290	295	300	
177	<210> SEQ ID NO: 3			
178	<211> LENGTH: 915			
179	<212> TYPE: DNA			
180	<213> ORGANISM: Artificial Sequence			
182	<220> FEATURE:			
183	<221> NAME/KEY: CDS			
184	<222> LOCATION: (1)..(915)			
186	<220> FEATURE:			
187	<223> OTHER INFORMATION: Description of Artificial Sequence:pks chimera			
189	<400> SEQUENCE: 3			
190	atg gct cat tac cgt aat gac tac aaa aag aat gat gag gta gag ttt	48		
191	Met Ala His Tyr Arg Asn Asp Tyr Lys Lys Asn Asp Glu Val Glu Phe			
192	1 5 10 15			
194	gtc cga act ggc tat ggg aag gat atg ata aaa gtt ctc cat att cag	96		
195	Val Arg Thr Gly Tyr Gly Lys Asp Met Ile Lys Val Leu His Ile Gln			
196	20 25 30			
198	cga gat gga aaa tat cac agc att aaa gag gtg gca act tca gtg caa	144		
199	Arg Asp Gly Lys Tyr His Ser Ile Lys Glu Val Ala Thr Ser Val Gln			
200	35 40 45			
202	ctg act ttg agc tcc aaa aaa gat tac ctg cat gga gac aat tca gat	192		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/762,097A

DATE: 08/13/2002
TIME: 13:31:17

Input Set : A:\Seq LIST.txt
Output Set: N:\CRF3\08132002\I762097A.raw

203	Leu	Thr	Leu	Ser	Ser	Lys	Lys	Asp	Tyr	Leu	His	Gly	Asp	Asn	Ser	Asp		
204	50					55				60								
206	gtc	atc	cct	aca	gac	acc	atc	aag	aac	aca	gtt	aat	gtc	ctg	gcg	aag	240	
207	Val	Ile	Pro	Thr	Asp	Thr	Ile	Lys	Asn	Thr	Val	Asn	Val	Leu	Ala	Lys		
208	65						70				75			80				
210	tcc	aaa	ggc	atc	aaa	agc	ata	gaa	act	ttt	gct	gtg	act	atc	tgt	gag	288	
211	Phe	Lys	Gly	Ile	Lys	Ser	Ile	Glu	Thr	Phe	Ala	Val	Thr	Ile	Cys	Glu		
212							85				90			95				
214	cat	ttc	ctt	tct	tcc	ttc	aag	cat	gtc	atc	aga	gct	caa	gtc	tat	gtg	336	
215	His	Phe	Leu	Ser	Ser	Phe	Lys	His	Val	Ile	Arg	Ala	Gln	Val	Tyr	Val		
216							100			105			110					
218	gaa	gaa	gtt	cct	tgg	aag	cgt	ttt	gaa	aag	aat	gga	gtt	aag	cat	gtc	384	
219	Glu	Glu	Val	Pro	Trp	Lys	Arg	Phe	Glu	Lys	Asn	Gly	Val	Lys	His	Val		
220							115			120			125					
222	cat	gca	ttt	att	tat	act	cct	act	gga	acg	cac	ttc	tgt	gag	gtt	gaa	432	
223	His	Ala	Phe	Ile	Tyr	Thr	Pro	Thr	Gly	Thr	His	Phe	Cys	Glu	Val	Glu		
224							130			135			140					
226	cag	ata	agg	aat	gga	cct	cca	gtc	att	cat	tct	gga	atc	aaa	gac	cta	480	
227	Gln	Ile	Arg	Asn	Gly	Pro	Pro	Val	Ile	His	Ser	Gly	Ile	Lys	Asp	Leu		
228							145			150			155			160		
230	aaa	gtc	ttg	aaa	aca	acc	cag	tct	ggc	ttt	gaa	gga	ttc	atc	aag	gac	528	
231	Lys	Val	Leu	Lys	Thr	Thr	Gln	Ser	Gly	Phe	Glu	Gly	Phe	Ile	Lys	Asp		
232							165			170			175					
234	cag	ttc	acc	acc	ctc	cct	gag	gtg	aag	gac	cgg	tgc	ttt	gcc	acc	caa	576	
235	Gln	Phe	Thr	Thr	Leu	Pro	Glu	Val	Lys	Asp	Arg	Cys	Phe	Ala	Thr	Gln		
236							180			185			190					
238	gtg	tac	tgc	aaa	tgg	cgc	tac	cac	cag	ggc	aga	gat	gtg	gac	ttt	gag	624	
239	Val	Tyr	Cys	Lys	Trp	Arg	Tyr	His	Gln	Gly	Arg	Asp	Val	Asp	Phe	Glu		
240							195			200			205					
242	gcc	acc	tgg	gac	act	gtt	agg	agc	att	gtc	ctg	cag	aaa	ttt	gct	ggg	672	
243	Ala	Thr	Trp	Asp	Thr	Val	Arg	Ser	Ile	Val	Leu	Gln	Lys	Phe	Ala	Gly		
244							210			215			220					
246	ccc	tat	gac	aaa	ggc	gag	tac	tcg	ccc	tct	gtc	cag	aag	aca	ctc	tat	720	
247	Pro	Tyr	Asp	Lys	Gly	Glu	Tyr	Ser	Pro	Ser	Val	Gln	Lys	Thr	Leu	Tyr		
248							225			230			235			240		
250	gac	atc	cag	gtg	ctc	acc	ctg	ggc	cag	gtt	cct	gag	ata	gaa	gat	atg	768	
251	Asp	Ile	Gln	Val	Leu	Thr	Leu	Gly	Gln	Val	Pro	Glu	Ile	Glu	Asp	Met		
252							245			250			255					
254	gaa	atc	agc	ctg	cca	aat	att	cac	tac	tta	aac	ata	gac	atg	tcc	aaa	816	
255	Glu	Ile	Ser	Leu	Pro	Asn	Ile	His	Tyr	Leu	Asn	Ile	Asp	Met	Ser	Lys		
256							260			265			270					
258	atg	gga	ctg	atc	aac	aag	gaa	gag	gtc	ttg	cta	cct	tta	gac	aat	cca	864	
259	Met	Gly	Leu	Ile	Asn	Lys	Glu	Glu	Val	Leu	Leu	Pro	Leu	Asp	Asn	Pro		
260							275			280			285					
262	tat	gga	aaa	att	act	ggt	aca	gtc	aag	agg	aag	ttg	tct	tca	aga	ctg	912	
263	Tyr	Gly	Lys	Ile	Thr	Gly	Thr	Val	Lys	Arg	Lys	Leu	Ser	Ser	Arg	Leu		
264							290			295			300					
266	tga															915		
270	<210>	SEQ	ID	NO:	4													

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/762,097A

DATE: 08/13/2002
TIME: 13:31:17

Input Set : A:\Seq LIST.txt
Output Set: N:\CRF3\08132002\I762097A.raw

271 <211> LENGTH: 304
 272 <212> TYPE: PRT
 273 <213> ORGANISM: Artificial Sequence
 275 <220> FEATURE:
 276 <223> OTHER INFORMATION: Description of Artificial Sequence:pks chimera
 278 <400> SEQUENCE: 4
 279 Met Ala His Tyr Arg Asn Asp Tyr Lys Lys Asn Asp Glu Val Glu Phe
 280 1 5 10 15
 282 Val Arg Thr Gly Tyr Gly Lys Asp Met Ile Lys Val Leu His Ile Gln
 283 20 25 30
 285 Arg Asp Gly Lys Tyr His Ser Ile Lys Glu Val Ala Thr Ser Val Gln
 286 35 40 45
 288 Leu Thr Leu Ser Ser Lys Lys Asp Tyr Leu His Gly Asp Asn Ser Asp
 289 50 55 60
 291 Val Ile Pro Thr Asp Thr Ile Lys Asn Thr Val Asn Val Leu Ala Lys
 292 65 70 75 80
 294 Phe Lys Gly Ile Lys Ser Ile Glu Thr Phe Ala Val Thr Ile Cys Glu
 295 85 90 95
 297 His Phe Leu Ser Ser Phe Lys His Val Ile Arg Ala Gln Val Tyr Val
 298 100 105 110
 300 Glu Glu Val Pro Trp Lys Arg Phe Glu Lys Asn Gly Val Lys His Val
 301 115 120 125
 303 His Ala Phe Ile Tyr Thr Pro Thr Gly Thr His Phe Cys Glu Val Glu
 304 130 135 140
 306 Gln Ile Arg Asn Gly Pro Pro Val Ile His Ser Gly Ile Lys Asp Leu
 307 145 150 155 160
 309 Lys Val Leu Lys Thr Thr Gln Ser Gly Phe Glu Gly Phe Ile Lys Asp
 310 165 170 175
 312 Gln Phe Thr Thr Leu Pro Glu Val Lys Asp Arg Cys Phe Ala Thr Gln
 313 180 185 190
 315 Val Tyr Cys Lys Trp Arg Tyr His Gln Gly Arg Asp Val Asp Phe Glu
 316 195 200 205
 318 Ala Thr Trp Asp Thr Val Arg Ser Ile Val Leu Gln Lys Phe Ala Gly
 319 210 215 220
 321 Pro Tyr Asp Lys Gly Glu Tyr Ser Pro Ser Val Gln Lys Thr Leu Tyr
 322 225 230 235 240
 324 Asp Ile Gln Val Leu Thr Leu Gly Gln Val Pro Glu Ile Glu Asp Met
 325 245 250 255
 327 Glu Ile Ser Leu Pro Asn Ile His Tyr Leu Asn Ile Asp Met Ser Lys
 328 260 265 270
 330 Met Gly Leu Ile Asn Lys Glu Glu Val Leu Leu Pro Leu Asp Asn Pro
 331 275 280 285
 333 Tyr Gly Lys Ile Thr Gly Thr Val Lys Arg Lys Leu Ser Ser Arg Leu
 334 290 295 300
 337 <210> SEQ ID NO: 5
 338 <211> LENGTH: 304
 339 <212> TYPE: PRT
 340 <213> ORGANISM: Artificial Sequence
 342 <220> FEATURE:

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/762,097A

DATE: 08/13/2002

TIME: 13:31:18

Input Set : A:\Seq LIST.txt

Output Set: N:\CRF3\08132002\I762097A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date